

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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TITLE: METHOD, SYSTEM, AND PROGRAM FOR PROVIDING USER  
LOCATION INFORMATION WITH A PERSONAL INFORMATION  
MANAGEMENT PROGRAM

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CERTIFICATE UNDER 37 CFR 1.8:

I hereby certify that this correspondence is being transmitted via the EFS-Web system to Examiner  
Jungwon Chang at the U.S. Patent Office on August 23, 2007.

/David Victor/  
David W. Victor

RESPONSE TO NOTICE OF NON-COMPLIANT APPEAL BRIEF INCLUDING  
SUBMISSION OF SUMMARY OF CLAIMED SUBJECT MATTER

On July 23, 2007, a Notice of Non-Compliant Appeal Brief was mailed in which the Examiner found that the "Summary of the Claimed Subject Matter" section to include incorrect page number references to the Specification with respect to the description of claim 40. Applicants submit below an amended "Summary of the Claimed Subject Matter" including corrections to the citations in the Specification with respect to the citations for claim 40 the Examiner noted. Applicants further corrected citations to the Specification with respect to claims 18, 23, and 62. Per MPEP 1205.03(b), Applicants only submit the amended "Summary of the Claimed Subject Matter" section below.

Should any fees be required, please charge Deposit Account No. 09-0447. The attorney of record invites the Examiner to contact him at (310) 553-7977 if the Examiner believes such contact would advance the appeal of the case.

V. Summary of the Claimed Subject Matter

A. Independent Claim 1

Independent claim 1 is directed to a method for providing user location information for a personal information management program. With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2. (Specification, pg. 12, lines 6-10).

The claim requires generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

#### B. Independent Claim 18

Independent method claim 18 is directed to generating a calendar for a personal information management program. With respect to the preamble, the Specification discloses a Personal Information Manager (PIM) client 20 that gathers and presents PIM information, such as calendaring and scheduling information. (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1). Further, the PIM server 24 generates calendar information for requested time periods. (Spec., pg. 16, lines 9-22)

The first limitation of the claim requires receiving selection of a time interval. With respect to this limitation, the Specification discloses the PIM server 24 receiving a request for PIM information for a time interval for a user. (Spec., pg. 16, lines 1-2, FIG. 7, block 350)

The second limitation of the claim requires that for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this limitation, the Specification discloses that the PIM server 24 queries the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 16, lines 2-4, FIG. 7).

The third limitation of the claim requires processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, line 13-19). The Specification discloses,

with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The fourth limitation of the claim requires generating information on the predefined activity within the selected time interval. With respect to this limitation, the Specification discloses that the PIM server 24 generates (at block 358) for each calendar time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval. (Spec., pg. 16, lines 4-8, FIG. 7).

The fifth limitation of the claim requires displaying information on the predefined activity of the user and the selected time interval. With respect to this limitation, the Specification generating pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity. (Spec., pg. 16, lines 9-22, FIGs. 7, 8, 9a, 9b).

### C. Independent Claim 23

Independent claim 23 is directed to a system adapted to communicate with a wireless device for providing user location information for a personal information management program. With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2. (Spec., pg. 12, lines 6-10).

The first limitation requires means for generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to the functional requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26)

Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Specification, pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

Thus, with respect to this first limitation, the structure disclosed in the specification corresponding to the claimed means comprises the PIM client 20 and the PIM server 24. The Specification discloses that the PIM client 20 and PIM server may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

The second limitation requires means for processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that structure corresponding to the claimed function comprises the PIM client 20 or PIM server 24 that is disclosed as performing the claimed filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The third limitation requires means for generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses that the structure corresponding to the claimed function comprises the PIM client 20 or PIM server 24 performing that generate a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

#### D. Dependent Claim 24

Claim 24 depends from claim 23 and recites the following limitations in “means” language:

means for receiving the generated position coordinates and time information from the wireless device; and

means for storing the generated position coordinates and time information in a database, wherein the position coordinates and time information are processed to determine the predefined activity during the activity time period and locations and associated time periods where the user was present.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database. (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

E. Dependent Claim 25

Claim 25 depends from claim 23 and recites the following limitations in “means” language:

means for transmitting receiving from the wireless device the determined locations and associated time periods; and

means for storing the determined locations and time periods in a database.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database. (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof.

F. Dependent Claim 26

Claim 26 depends from claim 23 and recites the following limitations in “means” language:

means for providing a plurality of location boundaries defining multiple location coordinates;

means for providing, for each location boundary, a location description including information describing the location boundary;

means for determining, for each generated position coordinate, whether the position coordinate is included in one of the provided location boundaries; and

means for processing the position coordinates and time information to determine information on locations and associated time periods, wherein at least one location for which information is determined includes multiple generated position coordinates and the associated time period for the location includes the time information generated for the position coordinates included in the determined location, wherein for each determined location and associated time period, the user of the wireless device was located at the location for the associated time period, and wherein at least one determined location comprises one predefined location boundary including position coordinates, and wherein the information generated on the at least one location includes the location description for the predefined location boundary comprising the location.

The structure disclosed in the specification corresponding to the claimed means limitations comprises the PIM client 20 and PIM server 24 (Spec., pg. 13, line 13 to pg. 14, line 7, FIG. 6). The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

#### G. Dependent Claim 30

Claim 30 depends from claim 23 and recites the following limitations in “means” language:

means for receiving from the wireless device the position coordinates, associated time information, and associated location description; and

means for processing the position coordinates and time information to determine location boundaries including the position coordinates, and wherein the information

generated on the locations includes the location description provided by the transmitter for the location boundary comprising the location.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1) that receives position records 54 from the PIM client 20 that the PIM server 24 includes in records 54 in user records 50 of the database. (Spec., pg. 12, line 26 to pg. 13, line 4; pg. 15, lines 21-24).

Further, the structure disclosed in the Specification corresponding to the claimed means for processing the position coordinates comprises the PIM client 20 and PIM server 24 (Spec., pg. 12, lines 19-26; pg. 13, line 12 to pg. 14, line 7, FIG. 6).

The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

#### H. Dependent Claim 33

Claim 33 depends from claim 23 and recites the following limitations in “means” language:

means for receiving a request for information on the user for a selected time interval;

means for determining one predefined activity occurring during the selected time interval; and

means for generating information on the predefined activity during the selected time interval.

The structure disclosed in the specification corresponding to the claimed means functions comprises the PIM server 24 (FIG. 1). (Spec., pg. 15, line 25 to pg. 16, line 22, FIG. 7). The Specification discloses that the PIM server 24 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

#### I. Independent Claim 40

Independent system claim 40 is directed to a system for generating a calendar for a personal information management program. With respect to the preamble, the Specification

discloses a Personal Information Manager (PIM) client 20 that gathers and presents PIM information, such as calendaring and scheduling information. (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1). Further, the PIM server 24 generates calendar information for requested time periods. (Spec., pg. 16, lines 9-22).

The first limitation of the claim recites means for receiving selection of a time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the first limitation by receiving a request for PIM information for a time interval for a user. (Spec., pg. 15, line 25 to pg. 16, line 2).

The second limitation of the claim recites means for determining, for the selected time interval, position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the second limitation by querying the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 16, lines 2-4, FIG. 7).

The third limitation of the claim requires means for processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 comprises the structure corresponding to the claimed means of the third limitation by performing the filtering operations and algorithms of FIG. 6. (Specification, pg. 13, lines 13-19). The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Specification, pg. 15, lines 2-20, FIG. 6, block 320)

The fourth limitation of the claim requires means for generating information on the predefined activity within the selected time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the fourth limitation by generating (at block 358) for each calendar time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and

the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval. (Spec., pg. 16, lines 4-8, FIG. 7)

The fifth limitation of the claim requires means for displaying information on the predefined activity of the user and the selected time interval. With respect to this limitation, the Specification discloses that the PIM server 24 comprises the structure corresponding to the claimed means of the fifth limitation that generates pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity. (Spec., pg. 15, line 25 to pg. 17, line 16, FIGs. 7, 8, 9a, 9b).

The Specification discloses that the PIM client 20 and PIM server may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, line 20 to pg. 8, line 11)

J. Independent Claim 45

Independent claim 45 is directed to an article of manufacture comprising a computer readable storage medium including code for providing user location information for a personal information management program. With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2. (Specification, pg. 12, lines 6-10). The Specification further discloses that the PIM server and client may be implemented as an article manufacture comprising code or logic implemented in hardware or a computer readable medium, among other mediums. (Specification, pg. 17, line 21 to pg. 18, line 11).

The claim requires generating position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26)

Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires processing the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires generating information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

K. Independent Claim 62

Independent method claim 18 is directed to an article of manufacture for generating a calendar for a personal information management program. With respect to the preamble, the Specification discloses a Personal Information Manager (PIM) client 20 that gathers and presents PIM information, such as calendaring and scheduling information. (Spec., pg. 6, line 18 to pg. 7, line 3, FIG. 1). Further, the PIM server 24 generates calendar information for requested time periods. (Spec., pg. 16, lines 9-22) The Specification further discloses that the PIM server and client may be implemented as an article manufacture comprising code or logic implemented in hardware or a computer readable medium, among other mediums. (Specification, pg. 17, line 21 to pg. 18, line 11).

The first limitation of the claim requires receiving selection of a time interval. With respect to this limitation, the Specification discloses the PIM server 24 receiving a request for PIM information for a time interval for a user. (Spec., pg. 16, lines 1-2, FIG. 7, block 350)

The second limitation of the claim requires that for the selected time interval, determining position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this limitation, the Specification discloses that the PIM server 24 queries the PIM database 22 for filtered position records 60 (at block 354) and scheduled event records 52 (at block 356) of the user within the specified time interval. (Spec., pg. 16, lines 2-4, FIG. 7).

The third limitation of the claim requires processing the position coordinates and time information during the selected time interval to determine whether a change in a series of the position coordinates at times during the selected time interval indicates a predefined activity of the user occurring during the selected time interval. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, line 13-19). The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The fourth limitation of the claim requires generating information on the predefined activity within the selected time interval. With respect to this limitation, the Specification

discloses that the PIM server 24 generates (at block 358) for each calendar time period, e.g., every half-hour, hour, etc., information on the scheduled event description 74 and the location/activity description 106 (FIGs. 3a, d) in the located scheduled event 52 and filtered position 58 records, respectively, that fall within the calendar time periods that span the specified time interval. (Spec., pg. 16, lines 4-8, FIG. 7).

The fifth limitation of the claim requires displaying information on the predefined activity of the user and the selected time interval. With respect to this limitation, the Specification generating pages including generated information for calendar time periods within the specified time interval including information on user scheduled events and actual location/activity. (Spec., pg. 16, lines 9-22, FIGs. 7, 8, 9a, 9b).

#### L. Independent Claim 67

Independent claim 45 is directed to a computer readable medium for providing user location information for a personal information management program. With respect to the preamble, the Specification discloses that FIGs. 5-7 illustrate logic implemented in the personal information manager (PIM) client 20 and server 24 to gather and utilize position information concerning the wireless device 2. (Specification, pg. 12, lines 6-10). The Specification further discloses that user records 50 in a PIM database 22 include measured position records 54 and filtered position records 60. (Spec., FIGs. 2, 3b, 3d, pg. 8, lines 9-16, pg. 9, lines 1-10, pg. 10, line 16 to pg. 11, line 7).

The claim requires position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26) Further, the PIM server 24 generates position coordinates by storing the filtered position records having position coordinates in the PIM database 22 (Spec., pg. 15, lines 21-24) and generate calendar information having the position coordinates of the user wireless device (Spec., pg. 15, line 25 to pg. 16, line 8, FIG. 7).

The claim further requires a predefined activity occurring during an activity time period determined by processing position coordinates and time information to determine whether a change in a series of position coordinates at times indicates the predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM client 20 or PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM client 20 or PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

#### M. Dependent Claims 80 and 86

Claims 80 and 86 depend from claims 23 and 40, respectively, and recites the following limitations in “means” language:

means for determining locations of the wireless device during the activity time period based on the position coordinates of the wireless device during the activity time period, wherein generating the information comprises generating information on the predefined activity and the locations where the predefined activity occurred.

The structure disclosed in the specification corresponding to the claimed means for determining locations based on the position coordinates comprises the PIM client 20 and PIM server 24 (Spec., pg. 13, line 13 to pg. 14, line 7, FIG. 6). The Specification discloses that the PIM server 24 and PIM client 20 may be implemented using software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 20 to pg. 18, line 11).

N. Independent Claim 94

Independent claim 94 is directed to a system.

The system includes a wireless device and a server. FIG. 1 discloses a wireless device 2 and a server 4. (Spec., pg. 5, lines 9-21).

The claim further requires code executed by the wireless device to generate position coordinates of a wireless device and time information indicating times when the position coordinates were generated, wherein a user is associated with the wireless device. With respect to this claim requirement, the Specification discloses that the wireless device 2 communicates with a location transmitter to receive geographical coordinates. The PIM client 20 generates (at block 256, FIG. 5) data for a measured position record 54, including the received position coordinate, the date and time the coordinate was determined, and any location description associated with the predefined geographic boundary including the received position coordinate. (Spec., pg. 12, lines 23-26)

The claim further requires code executed by the server to process the position coordinates and time information to determine whether a change in a series of position coordinates at times indicates a predefined activity of the user occurring during an activity time period during which the position coordinates and the time information were generated. With respect to this limitation, the Specification discloses that the PIM server 24 may perform the filtering operations and algorithms of FIG. 6. (Spec., pg. 13, lines 13-19) The Specification discloses, with respect to FIG. 6, that activity algorithms are applied to analyze a series of consecutive measured position records and based on a rate of change in distance per unit of time, determine a predefined activity associated with the position records. (Spec., pg. 15, lines 2-20, FIG. 6, block 320).

The claim finally requires that the code executed by the server generates information on the determined predefined activity for the activity time period. With respect to this limitation, the Specification discloses with respect to FIG. 6, performed by the PIM server 24, generating a filtered position record 60 having a time period of the determined predefined activity and a description of the activity. (Spec., pg. 15, lines 10-20, FIG. 7, block 322). The Specification with respect to FIG. 3d describes the filtered position record 60 may indicate a date and time range of an activity and a description of the activity, e.g., driving, walking, flying in an airplane, etc. (Spec., pg. 10, line 16 to pg. 11, line 7)

The Specification discloses that the PIM client and server may be implemented as software, firmware, hardware or any combination thereof. (Spec., pg. 17, lines 21-25) The PIM programs comprise computer programs. (Spec., pg. 6, line 18 to pg. 8, line 8)

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Dated: August 23, 2007

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